



November 4, 2011

Ms. Joy Hilton, New Hampshire Unit
United States Environmental Protection Agency
Planning and Administration (SPA)
P.O. Box 8127
Boston, MA 02114-8127

**Re: National Pollutant Discharge Elimination System Permit #NH0090000
Summary of Storm Water Discharge System Maintenance
Pease International Trade Port
Portsmouth, NH**

Dear Ms. Hilton:

ENPRO Services, Inc. (ENPRO) has prepared this correspondence to provide a summary of completed maintenance activities at the Pease International Trade Port. The Pease Development Authority (PDA) maintains an active stormwater discharge system to McIntyre Brook which is currently regulated under the National Pollutant Discharge Elimination System (NPDES) Program Permit # NH0090000. ENPRO dewatered and cleaned the oil/water separator as part of routine, scheduled maintenance at the request of the PDA. The work was completed over a 3 day period between October 24, 2011 and October 26, 2011.

The oil/water separator system consists of an open-top concrete vault with two chambers that run the length of the separator system. Photographs of the system in its current configuration are attached. ENPRO's maintenance activities were conducted as follows:

- Diverted the entire system flow into Chamber 1;
- Dewatered remaining water into Chamber 2;
- Cleaned Chamber 2;
- Diverted the entire system flow into Chamber 1;
- Cleaned Chamber 1; and,
- Restored the oil/water separator to normal operation through both chambers.



Because the oil/water separator is part of an active stormwater conveyance system, maintenance activities were scheduled to coincide with a period of dry weather when flow through the oil/water separator system was low.

A sample of the effluent discharge was collected following the completion of maintenance activities on October 26, 2011 and analyzed for several effluent characteristics representative of the discharge to McIntyre Brook. The sample was analyzed for biological oxygen demand, chemical oxygen demand, volatile organic compounds, polynuclear aromatic hydrocarbons, pH, oil and grease, surfactants, total suspended solids, recoverable iron and zinc. A copy of the analytical report is attached.

Please contact me at (603) 410-1150 if you have any questions, or require additional information.

Sincerely,
ENPRO Services, Inc.

Gardner Warr
Project Manager

Attachments

Photographs
Laboratory Report

cc: Michael Mates, Pease Development Authority
55 International Drive
Portsmouth, NH 03801



View showing oil/water separator from the influent side.



View showing close up view of influent weirs.



View showing close up view of effluent weirs.



View showing oil/water separator from the effluent side.

Mr. Gardner Warr
ENPRO Services Inc.
12 Mulliken Way
Newburyport MA 01950

Report Number: 71342

Revision: Rev. 0

Re: Mcyntire Brook-Pease (Project No: 3103-11)

Enclosed are the results of the analyses on your sample(s). Samples were received on 26 October 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

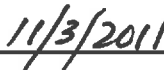
Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature


Stephen L. Knollmeyer Lab. Director

Date


11/3/2011

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

CLIENT: ENPRO Services Inc.

REPORT NUMBER: 71342

REV: Rev. 0

PROJECT: Mcyntire Brook-Pease (Project No: 3103-11)

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
71342-1	10/26/11	Separator	Biochemical Oxygen Demand	
	10/26/11	Separator	Chemical Oxygen Demand	
	10/26/11	Separator	EPA 8260 Volatile Organics	
	10/26/11	Separator	EPA 8270 (PAH only)	
	10/26/11	Separator	Metals	
	10/26/11	Separator	Metals Digestion	
	10/26/11	Separator	Oil and Grease	
	10/26/11	Separator	Surfactants - MBAS	
	10/26/11	Separator	SW-846 9040 pH in Water	
	10/26/11	Separator	Total Suspended Solids	

Mr. Gardner Warr
ENPRO Services Inc.
12 Mulliken Way
Newburyport MA 01950

November 1, 2011

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: Mcyntire Brook-Pease
Project Number: 3103-11
Field Sample ID: Separator

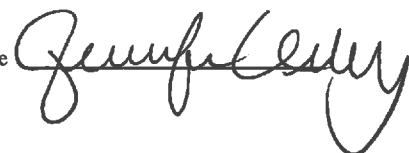
Lab Sample ID: 71342-1
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1
Collection Date: 10/26/11
Lab Receipt Date: 10/26/11
Analysis Date: 10/31/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	U	Ethylbenzene	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	U	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)	1	U
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	U
4-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
1,2-Dibromo-3-chloropropane	1	U	Toluene	1	U
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	U
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	U
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	U
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	U
1,4-Dichlorobenzene	1	U	Trichloroethene	1	U
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	U
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
1,1-Dichloroethene	1	U	1,3,5-Trimethylbenzene	1	U
cis-1,2-Dichloroethene	1	U	Vinyl Chloride	1	U
trans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	U	m,p-Xylene	1	U
Acetone	10	U	Diethyl ether	1	U
Carbon Disulfide	1	U	2-Hexanone	10	U
Tetrahydrofuran	2	U	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	U	Di-isopropyl ether (DIPE)	1	U
t-Butyl alcohol (TBA)	20	U	Ethyl t-butyl ether (ETBE)	1	U
t-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	U
			1,4-Dioxane	30	U
Surrogate Standard Recovery					
d4-1,2-Dichloroethane	103 %		d8-Toluene	100 %	
			Bromofluorobenzene	101 %	
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank					

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS:



Mr. Gardner Warr
ENPRO Services Inc.
12 Mulliken Way
Newburyport MA 01950

November 1, 2011

SAMPLE DATA

Lab Sample ID: 71342-1
Matrix: Aqueous
Percent Solid: NA
Dilution Factor: 1
Collection Date: 10/26/11
Lab Receipt Date: 10/26/11
Extraction Date: 10/27/11
Analysis Date: 11/01/11

CLIENT SAMPLE ID

Project Name: Mcyntire Brook-Pease
Project Number: 3103-11
Field Sample ID: Separator

ANALYTICAL RESULTS POLYNUCLEAR AROMATICS

COMPOUND	Quantitation Limit $\mu\text{g/L}$	Results $\mu\text{g/L}$
Naphthalene	0.1	0.09 J
Acenaphthylene	0.1	U
Acenaphthene	0.1	U
Fluorene	0.1	U
Phenanthrene	0.1	U
Anthracene	0.1	U
Fluoranthene	0.1	U
Pyrene	0.1	U
Benzo[a]anthracene	0.1	U
Chrysene	0.1	U
Benzo[b] fluoranthene	0.1	U
Benzo[k] fluoranthene	0.1	U
Benzo[a] pyrene	0.1	U
Dibenz [a,h] anthracene	0.1	U
Benzo(g,h,i) perylene	0.1	U
Indeno [1,2,3-cd] pyrene	0.1	U
2-Methylnaphthalene	0.1	U
Surrogate Standard Recovery		
d5-nitrobenzene 85 %	2-Fluorobiphenyl 87 %	d14-p-terphenyl 92 %
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis was conducted according to: "TestMethods for Evaluating Solid Waste, SW-846 Method 8270C."

COMMENTS: Detection limits achieved using Selected Ion Monitoring.

Authorized signature



Mr. Gardner Warr
ENPRO Services Inc.
12 Mulliken Way
Newburyport MA 01950

November 1, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: Mcyntire Brook-Pease
Project Number: 3103-11
Client Sample ID: Separator

Lab Sample ID: 71342-1
Matrix: Aqueous
Collection Date: 10/26/11 Time Collected: 15:05
Lab Receipt Date: 10/26/11
Analysis Date: 10/26/11 Time Analyzed: 15:57

pH ANALYSIS

Sample	Result	Units
71342-1	7.3	pH Units

METHODOLOGY: Sample analyzed according to "EPA SW 846 Method 9040 pH in water"

COMMENTS:

Authorized signature



Maine Environmental Laboratory

Report of Analyses

One Main Street Yarmouth, Maine 04096-1107 Tel (207) 846-6569 Fax (207) 846-9066 e-mail: melab@maine.rr.com

Kate Zaleski
Analytics Environmental Laboratory, LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801

November 02, 2011

Page 1 of 2

Report No.: AEL6429-11

Enclosed are the results of the analyses requested for your samples as received by the laboratory. Samples were received in acceptable condition and analyzed within method holding times. All quality control data was within laboratory acceptance limits unless noted. The Limit of Quantitation (LOQ) is the minimum level for reporting quantitative data. The Limit of Detection (LOD) is the minimum level for reporting estimated data. Data reported between the Limit of Quantitation and Limit of Detection are J flagged as estimated. Maine Environmental Laboratory is certified by Maine (cert. #2011008), New Hampshire NELAP (NHLEAP) (cert. #2031) and Connecticut (PH #0103). A list of certified parameters is available on request. The results reported herein conform to the most current NELAP standards where applicable unless otherwise narrated in this report. This report shall not be reproduced except in full without the written consent of the laboratory.

The complete report consists of the following sections:

Maine Environmental Laboratory report
Chain of custody form

References

EPA - EPA600/4-79-020, Methods for Chemical Analysis of Water and Wastes, USEPA, Cincinnati, Ohio, March 1983.
SW8 - SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition, 1986.
STM - Standard Methods for the Examination of Water and Wastewater, 18th edition, APHA, AWWA, WPCF, 1992.
CLP - USEPA CLP Statement of Work for Inorganics, ILMO3.0.
AOA - Official Methods of Analysis of the Association of Official Analytical Chemists, 14th edition, 1984.
EPA2 - EPA/600R-94/111, Methods for the Determination of Metals in Environmental Samples, Supplement 1, May, 1994.
EPA1 - EPA/600/R-93/100 Methods for the Determination of Inorganic Substances in Environmental Samples, Aug. 1993.
HACH - Chemical Oxygen Demand, Method 8000, Hach Handbook of Water Analysis, Hach Chemical Company, 1979.
HEX - EPA-821-R-98-002, Method 1664, Rev. A: N-Hexane Extractable Material by Extraction and Gravimetry, Feb. 1999.

Authorized signature



Herbert S. Kodis, laboratory director

Maine Environmental Laboratory

Report of Analyses

One Main Street Yarmouth, Maine 04096-1107 Tel (207) 846-6569 Fax (207) 846-9066 e-mail: melab@maine.rr.com

Kate Zaleski

Page 2 of 2

Analytics Environmental Laboratory, LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801

November 02, 2011

Report No: AEL6429-11 Sampler: No Data
Date received: 10/27/11 Sampling date & time: 10/26/11-1505
Project ID: Mcyntire Brook - Pease #3103-11 Sample matrix: Aqueous
Laboratory ID: AEL642911-01 Sample ID: Separator (71342-1)

Parameter	Results	units	Date-Time	LOD	LOQ	Method	Reference
			Analyzed				
Iron, total recoverable	1.99	mg/L	11/02/11	0.02	0.05	200.2/200.7	EPA2
Zinc, total recoverable	0.007	mg/L	11/02/11	0.002	0.005	200.2/200.7	EPA2
BOD5, seeded	11	mg/L	10/27/11-1330			5210B	STM
COD	27	mg/L	10/31/11	3	10	8000	HACH
Oil & Grease	ND	mg/L	11/01/11	1.3	4.2	1664A SPE	HEX
TSS	ND	mg/L	11/01/11		4	2540D	STM

ND = not detected J = estimated B = detected in blank S = DLs increased due to sample matrix



Absolute Resource *associates*

124 Heritage Avenue #10 Portsmouth, NH 03801

Kate Zaleski
Analytics Environmental Laboratory, LLC
195 Commerce Way
Portsmouth, NH 03801

PO Number: 71342
Job ID: 22735
Date Received: 10/27/11

Project: Mcyntire Brook-Pease 3103-11

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Sue Sylvester (for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/2/2011
Total number of pages: 3

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: Mcyntire Brook-Pease 3103-11

Job ID: 22735

Sample#: 22735-001

Sample ID: Separator

Matrix: Water

Sampled: 10/26/11 15:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	< 0.1	0.1	mg/L	1	AMK	10/27/11	1102452	10/27/11	13:45	SM5540C

22735

Page ____ of ____

